UNIVERSITY
OF MICHIGAN
SEP 1958
LIBRARY SCIENCE
LIBRARY

QUARTERLY BULLETIN

OF THE

INTERNATIONAL ASSOCIATION OF AGRICULTURAL LIBRARIANS & DOCUMENTALISTS

Vol. III July 1958 No. 3

D

QUARTERLY BULLETIN
OF THE
INTERNATIONAL ASSOCIATION OF AGRICULTURAL
LIBRARIANS & DOCUMENTALISTS

BULLETIN TRIMESTRIEL DE L'ASSOCIATION
INTERNATIONALE DES BIBLOTHECAIRES
ET DOCUMENTALISTES AGRICOLES

VIERTELJAHRSSCHRIFT
DER INTERNATIONALEN GESELLSCHAFT
LANDWIRTSCHAFTLICHER BIBLIOTHEKARE &
DOKUMENTALISTEN

BOLETIN TRIMESTRAL
DE LA
ASOCIACION INTERNACIONAL
DE BIBLIOTECARIOS Y DOCUMENTALISTAS AGRICOLAS

Editor
Rédacteur-en-chef
Schriftleiter
Director

D. H. BOALCH

Rothamsted Experimental Station
Harpenden, Herts., England

PRINTED BY SEMPER AVANTI - THE HAGUE - NETHERLANDS

Vol. III July 1958 No. 3

CONTENTS

Page

Developpement de l'Analyse des Relations dans la C.D.U. (D. Kervégant) 111

Conference of Agricultural Librarians in Moscow (A. M. Bochever) 117

LETTERS TO THE EDITOR 119

COMMUNICATIONS TO MEMBERS:

Development of a West German Agricultural Documentation Organization 121

Association of West German Agricultural Librarians and Documentalists 121

Working Committee Reports 121

BIBLIOGRAPHICAL NEWS:

Bibliographies 122

Periodicals 153

Dictionaries 156

Directories 157

Other Reference Works 157

Congresses: Proceedings & Transactions 157

BOOK REVIEWS 158

Corrigenda 159

A note on this Quarterly Bulletin 159

DEVELOPPEMENT DE L'ANALYSE DES RELATIONS DANS LA C.D.U.

PAR

D. KERVEGANT, *Versailles*

(Paper presented at the Meeting of the FID/IAALD Joint Committee on Classification, Paris, 1957)

L'indexation des articles de périodiques dans les centres de documentation rend pratiquement indispensable l'indication de la nature des relations existant entre les concepts figurant aux tables de classification. Faute d'analyse des relations, la traduction, dans le langage classificatoire, des sujets complexes demeure imparfaite, imprécise et souvent multivoque.

Dans le cas particulier de la C.D.U., le principe de l'interchangeabilité des isolats présente l'inconvénient d'introduire systématiquement l'homonymie. Une analyse plus poussée des relations doit permettre de corriger ce grave défaut.

A l'heure actuelle, l'analyse relationelle est réalisée dans la C.D.U. essentiellement au moyen des symboles de liaison '+' (énumération, addition) et ':' (relation d'un ordre quelconque).

Les tables des subdivisions communes et celles des subdivisions analytiques spéciales aux grandes classes (Chimie, Botanique, Zoologie, etc. . . .) traduisent fréquemment aussi des types de relation. Ainsi, la table des Subdivisions de points de vue analytiques correspond à la relation d'orientation. Dans les subdivisions .01 à .07 de la Botanique, nous trouvons la relation d'influence, et dans .08 et .09 celle d'utilisation de méthodes d'investigation ('tool phase' de RANGANATHAN).

Toutefois, ici, le concept de relation est 'fondu' avec un autre concept, dont il ne peut être séparé. Il en résulte que les subivisions communes sont utilisables uniquement pour représenter le second concept et non pour l'analyse relationelle proprement dite, celle-ci devant être applicable dans les cas de concepts quelconques.

Nous examinerons successivement l'établissement des catégories (ou types) de relation et la symbolisation de ces dernières.

Catégories de relation:

L'établissement de catégories de relation applicables sur le plan encyclopédique est une opération délicate, qui exigera, pour être

menée à bien, la collaboration des spécialistes des divers domaines de la connaissance. Nous envisagerons seulement ici le cas des sciences naturelles.

L'analyse relationnelle dépendra aussi, jusqu'à un certain point, du type de classification auquel elle est destinée. On conçoit assez aisément que la représentation de la relation pourra varier suivant qu'il s'agira de concepts élémentaires classés alphabétiquement ('analets' de FARRADANE), de groupements de concepts suivant certaines caractéristiques ('facets' de RANGANATHAN),, ou de concepts souvent complexes disposés dans un ordre hiérarchique (C.D.U.).

C'est pourquoi nous n'examinerons pas ici, malgré tout l'intérêt qu'elles présentent, les 6 catégories préconisées par RANGANATHAN et les 9 catégories (ou 'operators') de FARRADANE. Nous pensons préférable de vous soumettre le schéma ci-après, établi en tenant compte de la structure de la C.D.U.

Types de relation

1. Attribution: attributs, propriétés, composition, structure, physiologie . . .
2. Action, interaction, influence . . .
3. Dépendance fonctionnelle: causalité, genèse, filiation, résultat, fin . . .
4. Orientation: aspect, application, utilisation . . .
5. Comparaison, équivalence, identité, analogie, différenciation . . .
6. Association, combinaison, synthèse . . .
7. Enumération, addition . . .

Pour les 4 premières catégories, il y a lieu de distinguer le sujet et l'objet de la relation, de façon à permettre l'interchangeabilité des concepts.

On pourrait aussi envisager une définition plus précise (ou subdivision) de certains types de relation. Il est possible de distinguer, par exemple, les propriétés physiques, chimiques et biologiques. L'action et l'interaction peuvent être favorables (stimulation, accroissement; symbiose, synergisme) ou défavorables (inhibition, retardement, paratitisme; concurrence, compétition, antagonisme, incompatibilité, etc. . . .). L'équivalence et la différenciation, bien que leur perception résulte d'une comparaison, constituent des catégories suffisamment distinctes pour être l'objet d'une notation spéciale. D'une façon générale cependant, la richesse en concepts des tables de la C.D.U. évitera d'avoir à pousser très loin la subdivision des catégories de relation.

Symbolisation:

Pour symboliser les types de relation, on peut utiliser des signes orthographiques ou mathématiques, les lettres de l'alphabet, etc. . . . Dans le cas de la C.D.U., il nous semble plus logique cependant de

retenir les nombres décimaux, de façon à rapprocher les catégories apparentées et à les subdiviser suivant les besoins. Les nombres relationnels seraient 'caractérisés' au moyen d'un signe spécial, qui les encadrerait (1).

Seraient utilisables, par exemple, pour cette 'caractérisation': la virgule ',', le point virgule ';', l'astérique '*', la flèche '→'. Les deux premiers signes présentent l'inconvénient d'être difficiles à distinguer du point et des deux points respectivement. Des deux derniers (qui n'existent malheureusement pas sur toutes les machines à écrire), la flèche nous parait la plus indiquée, car on pourrait lier à son orientation les concepts de: sujet, objet (flèche dirigée vers l'objet), interaction et interdépendance (flèches orientées en sens contraire l'une de l'autre), équivalence (flèches convergentes), différenciation (flèches divergentes).

Il conviendrait cependant de faire une exception pour la symbolisation des deux dernières catégories indiquées ci-dessus: l'addition ou énumération, déjà traduite dans la Classification par le signe '+', et l'association ou combinaison, qu'il paraît plus mnémonique de représenter par le signe de la multiplication ou petit 'x', utilisé en biologie pour désigner les hybrides.

Le symbole de liaison indiquant la relation entre les indices qui l'encadrent, il importera évidemment, lorsque l'un de ceux-ci sera un indice complexe, formé de 2 ou plusieurs indices simples, de préciser son extension au moyen d'un signe particulier, qui pourrait être les crochets '[]'.

Nous aurions alors, pour les catégories et les symboles de relation, le tableau suivant:

Attribution (propriétés, composition, etc. . . .)

:← 1 ← Sujet
:← 11 ← Propriétés physiques
:← 12 ← Propriétés chimiques
:← 13 ← Propriétés biologiques
:→ 1 → Objet (Subdiviser comme ← 1)

Action

:← 2 ← Sujet (agissant sur)
:← 21 ← Agissant favorablement (stimulation, etc. . . .)

(1) On pourrait supprimer le signe distinctif, en plaçant le nombre relationnel en exposant des ':' (comme dans les formules chimiques). Il faudrait alors distinguer sujet et objet à l'aide de nombres décimaux différents (:21 par exemple pour 'sujet de l'action', :211 pour 'sujet agissant favorablement', etc. . . .). La principale objection à cette façon de faire est la difficulté plus grande présentée par la frappe à la machine à écrire et par la composition à l'imprimerie.

: ← 22 ← Agissant défavorablement (inhibition, etc. . . .)
: → 2 → Objet (influencé par) (Subdiviser comme ← 2)
: → 2 ← Interaction
: → 21 ← Interaction favorable (symbiose, etc. . . .)
: → 22 ← Interaction défavorable (concurrence, antagonisme, etc. . .)

Dépendance fonctionnelle (causalité, origine, etc. . . .)

: ← 3 ← Sujet (provenant de)
: → 3 → Objet (résultant en)
: → 3 ← Interdépendance

Orientation (aspect, application, etc. . . .)

: ← 4 ← Sujet (s'appliquant à)
: → 4 → Objet (application de)

: ← 5 ← *Comparaison*
ou
: → 5 →
: → 5 ← Equivalence, identité, etc. . . .
: ← 5 → Différenciation, divergence, etc. . . .
x *Association*, combinaison, synthèse
+ *Addition*, énumération

Exemples:

a. *Sujet constitué par 2 notions simples*

Relations entre le sol et le blé

631.4 : 631.11 ou 631.11 : 631.4
sol blé blé sol
Relation générale

Terre à blé

631.4 : → 4 → 633.11 ou 633.11 : ← 4 ← 631.4
(sujet) (objet) (objet) (sujet)
Relation d'orientation

Action du sol sur le blé

631.4 : → 2 → 633.11 ou 633.11 : ← 2 ← 631.4
(sujet) (objet) (objet) (sujet)
Relation d'action

Action du blé sur le sol

631.4 : ← 2 ← 633.11 ou 633.11 : → 2 → 631.4
(objet) (sujet) (sujet) (objet)
Relation d'action

Interactions du sol et du blé

631.4 : → 2 ← 633.11 ou 633.11 : → 2 ← 631.4
Relation d'interaction

Dans la notation C.D.U. actuelle, tous ces sujets seraient traduits par:

631.4 : 633.11 ou 633.11 : 631.4

b. *Sujet constitué par plusieurs notions, dons l'une complexe*

'Influence du climat sur la résistance de la pomme de terre aux maladies cryptogamiques'.

551.58 : → 2 → [631.521.6 : 632.4] : → 4 → 633.491
climat — Résistance aux champignons parasites — pomme de terre
(sujet) — (objet) — (objet)
Relation d'action — Relation d'orientation

En changeant l'ordre de succession des indices, on aurait:

633.491 ← 4 ← [631.521.6 : 632.4] : ← 2 ← 551.58
(objet) — (sujet de 633.491) (objet de 551.58) — (sujet)
Relation d'orientation — Relation d'action

ou [631.521.6 : 632.4] : ← 2 ← 551.58 : → 4 → 633.491
(objet) — (sujet) — (objet)
Relation d'action — Relation d'orientation

On peut, plus logiquement, considérer la 'résistance aux maladies cryptogamiques', non pas dans son application à la pomme de terre, mais comme une propriété physiologique de celle-ci. L'indexation serait alors:

551.58 : → 2 → [631.521.6 : 632.4] : → 1 → 633.491
(sujet) — (objet) — (objet)
Relation d'action — Relation d'attribution

On pourrait aussi, bien que cela ne paraisse pas s'imposer ici pour la compréhension, préciser la relation entre résistance et maladies cryptogamiques. On aurait alors:

[631.521.6 : → 4 → 632.4]
Relation d'orientation

Ce dernier exemple montre qu'il peut ne pas y avoir identité entre les indexations faites par des classificateurs différents, les points de vue de ceux-ci étant souvent variables. Il montre aussi, qu'une fois déterminés la nature de la relation, le sujet et l'objet, la transposition des indices se fait pour ainsi dire automatiquement sans avoir à 'repenser' le sujet indexé.

Signalons enfin, pour terminer, que la notation proposée ne heurte aucune des règles actuelles de la C.D.U. En précisant la signification du signe de relation générale, les ':', elle donne à un langage classificatoire du type enfantin, sans prépositions ni conjonctions, le caractère d'un langage d'adulte. Elle se situe, par suite, dans la ligne d'évolution normale de la classification.

* *
*

CONFERENCE OF AGRICULTURAL LIBRARIANS IN MOSCOW

BY

A. M. BOCHEVER, *Moscow*

On 20-24 December 1957 the Conference of librarians of the research institutions of the Lenin All-Union Academy of Agricultural Sciences took place in Moscow. The Conference was convened by the Central Scientific Agricultural Library. More than one hundred librarians of agricultural research institutions and of institutions of higher learning took part at the Conference. On the agenda there were lectures on the tasks of agricultural science and on those of agricultural libraries, and on the state of the agricultural libraries under the Lenin All-Union Academy of Agricultural Sciences. At the Conference speakers representing the large libraries of well-known research institutes, the All-Union Crop Husbandry Institute, the All-Union Plant Protection Institute, the Research Institute of Cotton Growing etc., spoke about their experiences in agricultural library work. Special reports were made on the problems of book acquisition, compiling of catalogues, lending of books, reference and bibliographical work, and of making use of foreign literature. The Conference was conducted as a seminar, and one of its most valuable results is a thoroughly discussed and unanimously adopted report on minimum of requirements to be set before libaries of research institutions.

The basis requirements set before libraries of research institutions are: working out of a definite profile of the library and of the plan of book acquisition in strict compliance with the profile of the institution to which the library is attached, and elaboration of the single system of catalogues, the systematic catalogue being considered the principal one. As there is no universally recognized scheme of book classification, special attention has been given to the participation of research institution libraries in working out book classification scheme headings which correspond to the topics of scientific and research work carried out by the institute. Taking into consideration the fact that large groups of scientists and specialists are concentrated within the research institutions, the libraries of these institutions must work out book classification schemes for their own fields. This will contribute substantially to the creation of a Soviet book classification.

Thus the library of a research institution should be most competent in its own branch of science. Book acquisition, catalogue compiling, reference and bibliographical work - everything should meet the needs of the development of this branch. Scientific workers should participate in the activities of the library of their research institution.

Details of the activities of the libraries of research institutions were discussed in the speeches of all participants in the Conference. There were altogether 33 speakers. Academician D. D. Brezhnev, First Vice-President of the Lenin All-Union Academy of Agricultural Sciences, opened the Conference. At the end of it he had a talk with the librarians in which he outlined the great tasks of the building-up of socialist agriculture and the role of science in the completion of these tasks, and emphasised that the activities of scientific workers are largely dependent upon a library, that a library is indispensable to them.

The participants in the Conference familiarized themselves with the work of the Central Scientific Agricultural Library; some of them have visited other Moscow libraries. In conclusion there was a lecture on 'What's new in library work abroad'.

* *
*

LETTERS TO THE EDITOR

Rehovot, Israel, 21.2.1958

Sir:

With reference to the request for suggestions in the January number of the IAALD Bulletin, our library wishes to raise the following point:

A special classification publication - even in mimeographed form - on agriculture and allied subjects, based on the UDC, seems highly desirable. The latest English (abridged) edition available is not detailed enough for use in highly specialised libraries, while the full UDC editions available at present, even in other languages are outdated. The price of full editions must be considered as well, especially as only a relatively small part of it is of interest to a specialised library.

In fact, 'semi-private' and very detailed editions have been published on certain agricultural subdivisions, such as the 'Oxford System of DC for Forestry', and the 'IAB Memo on the UDC', which is mainly devoted to Soil Science. What our library has in mind, is a special, fully detailed edition of the UDC for agricultural and related subjects only, which will be brought up-to-date from time to time. The UDC-based subdivision on Dairying recently published by the Bulletin is just an example in that direction.

This special edition suggested would be mainly but not exclusively in the 33 (Economics) and 63 (Agriculture) series. For the sake of convenience, classification numbers of subjects related to agricultural science might be included, although not as minutely detailed, such as: Agric. buildings, landscaping, agric. education and extension work, food industry, domestic science, transport, statistics, and the relevant parts of the natural science group.

Agricultural libraries using - or intending to use - the UDC, no doubt, will greatly appreciate such a special UDC publication. It could be issued in such way as to make possible the insertion of amended pages and addenda (see the 1957 Film List of the British Ministry of Agriculture); these supplements might be published as a special feature of the IAALD Bulletin.

We shall gladly welcome your comment on this suggestion of our library.

Sincerely yours,
Dr. M. Perek,
Chairman, Library Committee.
Faculty of Agriculture, Hebrew
University, Rehovot, Israel.

[The views expressed by Dr. Perek, which will undoubtedly be endorsed by many members of IAALD, harmonize with those of the FID/IAALD Joint Committee on Classification whose meeting was reported in the last issue of this Bulletin. When the revision work recommended by this meeting has been concluded, a publication such as Dr. Perek envisages might well be compiled. Meanwhile we would draw his attention to the 'Landbouwcode' (1956) prepared by Mr. A. Koekebakker, Centrum voor Landbouwdocumentatie, Gen. Foulkesweg 1A, Wageningen, Netherlands. - Editor].

*

* *

COMMUNICATIONS TO MEMBERS

Development of a German Agricultural Documentation Organization

Der Land- und Forstwirtschaftliche Forschungsrat (Bad Godesberg, Heerstr. 110), dessen Dokumentationskommission in langjähriger Arbeit die Voraussetzungen für eine allgemeine Dokumentationsorganisation der Landwirtschaftswissenschaft untersucht hat, hat vom Bundesminister für Ernährung, Landwirtschaft und Forsten die Starthilfe zum Aufbau einer Organisation für die wissenschaftliche Agrardokumentation erhalten. Ab 1.IV.58 wird die Dokumentationsorganisation, die Ernährungs- und Landwirtschaft, Gartenbau und Forstwirtschaft umfassen soll, entsprechend einem Memorandum des Vorsitzenden der Dokumentationskommission des Land- und Forstwirtschaftlichen Forschungsrates, Prof. Dr. W. Gleisberg, entwickelt. Wie geplant, ist in Bad Godesberg im Hause des Land- und Forstwirtschaftlichen Forschungsrates die *Dokumentationszentrale,* die als Koordinationsorgan die Schrifttumsarbeiten der Dokumentationsschwerpunkte, d.h. der verschiedenen Fachreferate der Ernährungs- und Landwirtschafts-, der Gartenbau- und Forstwissenschaft, zusammenfasst.

Association of West German Agricultural Librarians and Documentalists (Verband der Agrarbibliothekare und -dokumentare in der Bundesrepublik Deutschland)

Am 20.III.58 wurde in Bad Godesberg ein Verband der Agrarbibliothekare und -dokumentare begründet. Der Verband hat sich die Förderung aller personellen, materiellen und organisatorischen Voraussetzungen und Aufgaben der landwirtschaftlichen Bibliotheken der Bundesrepublik und der Agrardokumentation zum Ziel gesetzt. Zum Komm. Präsidenten des Verbandes wurde Prof. Dr. W. Gleisberg, zum Komm. Vizepräsidenten Prof. Dr. R. Lauche gewählt. Geschäftsstelle des Verbandes ist in Bad Godesberg, Heerstr. 110.

* *

*

WORKING COMMITTEE REPORTS

No reports from any of the Working Committees have been received by the Editor for inclusion in this issue.

BIBLIOGRAPHICAL NEWS

New Agricultural Bibliographies

This sub-section is now planned as supplementing Dr. Rudolf Lauche's *Internationales Handbuch der Bibliographien des Landbaues (World Bibliography of Agricultural Bibliographies)*, München, 1957, and is prepared by Dr. Lauche himself with assistance from Mrs. Margaret Bryant, U.S. Dept of Agriculture Library. - (BA) at the end of an entry means 'Bibliography of Agriculture' and implies that the item has been communicated by Mrs. Bryant, while the numbers, for example (88), indicate its position as supplementary to Dr. Lauche's *Internationales Handbuch*.

Members are asked to send new bibliographies, or information about new bibliographies (from 1956 on), with notes (of the kind appearing in the entries below), to: Dr. R. Lauche, Braunschweig, Bundesallee 50, Germany, for inclusion in this Quarterly Bulletin. If required, the bibliographies will be returned to the sender. Books or papers with bibliographical parts are also required. The names of those contributing information will appear in this Bulletin.

(As hitherto, notes on periodicals, dictionaries and other reference works, etc., should be sent to the Editor of this Bulletin, D. H. Boalch).

1. Agriculture, general

1.2 Bibliographies of bibliographies

Blanchard, J. Richard; Harald Ostvold: Literature of agricultural research. - Berkeley: Univ. of Calif. Press 1958. 231 p. - Price 5 $. 1927 references with annotations, classified in 22 parts. Each part with useful introduction, arranged by abstracting journals, bibliographies and indexes, dictionaries, directories, handbooks, and periodicals lists. - Dictionary index. (88)

1.4 By countries

Bulgaria

Referativnij bjulleten' bolgarskih naučnih publikacij v oblasti selskogo hozjajstva. - Sofija: Akademija nauk. 1955:1957.
236 abstr. - Classified - In Russian - Agriculture, forestry, vet. science (194A)

Canada

Répertoire des périodiques, reçus à la Bibliothèque agricole. - Quebec: Dept of agric. 1957. 24 p. (BA) (363a)

Germany

Verzeichnis der an den landwirtschaftlichen Fach- und Hochschulen in der DDR bestätigten Literatur. - Berlin: Deutscher Bauernverlag 1956. 36 p. - 730 ref. - Books and pamphlets - Classified - In german - Selected for Germ. Dem. Rep. (270c)

Land- und Forstwirtschaft. Eine Auswahl deutscher Bücher. - Frankfurt/Main: Börsenverein des Deutschen Buchhandels 1958. 98 p.
Ref.: books (551), periodicals (46) - Classified - Germ. Fed. Rep. - Index - A price-list. (270d)

Netherlands

Sneepels, F. A.; J. H. Indeweij Gerlings: Register op de Nederlandse tijdschriftenliteratuur op het gebied van het landbouwkundig onderzoek 1926-1945. - Wageningen: Centrum voor landbouwdocumentatie 1957. 215 p. (Literatuuroverzicht 19).
4167 ref. from 6 nederl. periodicals. (382a)

Peoples democracies

Landwirtschaft im Sowjetblock. - Vlotho/Weser: Gesamteuropäisches Studienwerk 1957. 45 p. - Price 1.50 DM.
700 ref. - Classified - 1951/56. (146 a).

Philippines

Conklin, Harold C.: Hanunóo agriculture. A report on an Integral System of Shifting Cultivation in the Philippines. - Rome: FAO 1957. 209 p. (Forestry development paper 12) - With 187 ref. (406A)

South Asia

Bibliography of scientific publications of South and South Eastern Asia. - New Delhi: Unesco 1. 1955: 1957. 324 p. -
Includes agriculture. (BA) (152a)

1.5 History

Bulgaria

Platikanov, N.: Istorija na životnovudnata nauka v Bulgarija, - Sofija: Akad. Nauk 1957. 193 p.
With 970 ref. - Farm animals - Classified - Index. (516a)

Czechoslovakia

Stresková, Jaroslava: Bibliografie československých dějin země-

dělství a lesnictví z let 1953-56. - In: Sborník ČSAZV Historie a musejnictví 2. 1957 p. 213-242.
889 ref. - Classified - Agriculture and forestry. (553a)

Hungary

Bibliographia litterarum Hungariae oeconomicarum ruralium (1831-1867). Redegit Franciscus S. Szabó. A Magyar mezögazdasági szakirodalom könyvészete. - Budapest: Mezögazdasági Múzeum 1956. 659 p. (Bibliographia litterarum Hungariae oeconomicarum 3).
3799 ref. - Mostly books - Classified (U.D.C.) - Author index. (554)

USSR

Jablonowski, Horst: Sowjetische Forschungen der Nachkriegszeit zur russischen Agrargeschichte bis 1917. - In: Zeitschrift für Agrargeschichte 6. 1958 Nr. 1 p. 54-76. - With 145 ref. (548a)

1.7 Education and extension services

Bibliography on extension research on administrative organization and management and training extension workers. - Washington: USDA 1956. 17 p. (BA) (588a)

Television film catalog of the USDA. - Washington: USDA 1957. 27 p. (Agric. handbook 131). (BA) (590a)

Films, recordings, slides. - Ithaca, N.Y.: Cornell Univ. Dpt. of Extension. Film library 1957. 96 p.; Suppl. 1. 1957. 9 p. (BA) (592b)

1.9 Bio-bibliographies

Baade

Gegenwartsprobleme der Agrarökonomie. Festschrift für Fritz Baade. - Hamburg: Hoffmann & Campe 1958. 482 p. - In it: Das Schrifttum von F.B. - 184 ref. - Mostly agricultural policy. (611a)

Mitscherlich

Sauerlandt, Walter: Eilhard Alfred Mitscherlich. - In: Landwirtschaftl. Forschung 9. 1956. p. 75-89. - In it: Publications of M. with 108 selected ref. - Soil science and plant nutrition. (631a)

2. Science in agriculture

2.2 Biochemistry

Gibberellin

Stowe, B. B.; T. Yamaki: The history and physiological action of the gibberellins. - In: Annual review of plant physiology 8. 1957. p. 181-216. - A review with 202 citations. (768c)

Radiobiochemistry

Tagung der Akademie der Wissenschaften der UdSSR über die friedliche Ausnützung der Atomenergie 1955. 5. Bd.: Biologie - Berlin: Akademieverlag 1957. 266 p. - Price 26.50 DM.
With 340 ref. at end of chapters. (790c)

Radiobiologija, Biologičeskoe dejstvie ionizirujuščih izlučenij. - (Edit.:) A. M. Kuzin - Moskva: Akad. Nauk. 1957. 534 p. - Biological effects of radiation. - With 2469 citations at end of chapters. (790d)

Wassink, E. C.; J. A. J. Stolwijk; A. C. Heringa-Westerhof: A bibliographical study on uptake and accumulation of nutrient elements by plants in view of possible occurence of radioactive isotopes of these elements among the waste of nuclear reactors. - In: Landbouwhogeschool Meded. 56. 1956. Nr. 16. 52 p. (BA) (790e)

2.4 **Genetics**

Bibliographie sur **heterosis.** - Paris: Commission Intern. Ind. Agr. 1955. 28 p. (Bibliogr. 2687) - 124 short abstracts. (840a)

Angulo Carpio, M. D.: Acción de agentes físicos en citogenética (notas bibliográficas). - In: Genética ibérica 8. 1956 Nr. 1/2, 3/4. p. 53-69, 133-144. (BA) (840b)

Brauer Herrera, O.: Mutaciones provocadas artificialmente. Syntesis bibliografica. - In: Chapingo (Mexico) 9. 1956 p. 192-195. - (840c)

2.5 **Plant ecology**

Schmithüsen, Josef: Anfänge und Ziele der Vegetationsgeographie. - In: Mitt. d. floristisch-soziologischen Arbeitsgemeinschaft 6/7. 1957 p. 52-78. - With 193 ref. (906a)

Control of the plant environment. Ed. by J. P. Hudson. - London: Butterworth 1957. 240 p. - Methods - With 131 citations. (910b)

Oosting, Henry J.: The study of plant communities. 2. ed. - San Francisco: Freeman 1956. 44 p. - Price 6 $. - With 439 ref. (918a)

Trautmann, Werner: Bibiiographie zum Problem Pflanzensoziologie und Pollenanalyse (Palynologie). - In: Mitt. d. floristisch-soziologischen Arbeitsgemeinschaft 6/7. 1957 p. 362-368. - 104 ref. - Central Europe. (927a)

Rabeler, Werner: Bibliographie zum Fragengebiet Tier- und Pflan-

zensoziologie (Biozönotik) - In: Mitt. d. floristisch-soziologischen Arbeitsgemeinschaft 6/7. 1957. p. 369-380 - 226 ref. (927b)

2.6 Plant breeding

Haan, H. de: Books dealing with plant breeding. - In: Euphytica 6. 1957. p. 259-260. - 31 selected ref. (949b)

Rees, Irene D.: Bibliography of articles, reports and scientific papers by members of staff 1919-1955. - Aberystwyth: Welsh Plant Breeding Station 1956. 98 p. - Price 7s 6d.
782 ref., arranged alphab. and chronol. (950b)

Die **Frühdiagnose** in der **Züchtung** und Züchtungsforschung. Beiträge zur Methodik der Züchtung langlebiger Pflanzen. Hrsg. v. Hans Stubbe. - Berlin: Springer 1957. 96 p. (Züchter Sh. 4) - Price 20 DM.
260 ref. at end of chapters. - Mostly forest trees. (954b)

2.7 Nutrition

Shank, R. E.; E. M. Mrak: A bookshelf on foods and nutrition. - In: Amer. J. of Publ. Health 45. 1955. p. 419-428 (981b)

Pecot, Rebecca Koonce; Bernice K. Watt: Food yields, summarized by different stages of preparation - Washington: USDA 1956. 93 p. (Agric. handbook 102) - Ref. p. 59-93. (BA) (982c)

Strübing, Eduard: Der Zeitschriftenbestand des Instituts für Ernährungsforschung Potsdam. - In: Ernährungsforschung 1. 1956 p. 733-759, 2. 1957 p. 157-161, 808-813.
363 ref. - Alphab. (984a)

Blanchard, E. L.: List of state publications on food and nutrition in use. Rev. - Washington: U.S. Federal extension service 1955. 72 p. (BA) (994a)

Ritchie, J. A. S.; B. Küng-Wagner: Education in nutrition; a selected list of material. - Rome: FAO 1957. 74 p. (BA) (994b)

3. Plant and Soil

3.1 Agronomy

Poland

Przeglad naukowej literatury rolniczej. Gleboznawstwo - Chemia rolna - Ogólna uprawa roli i roślin - Warszawa: Panstwowe wydawnictwo rolnicze i leśne. 1. 1955 ff.

Abstr. (1., 2.:1037) - Internat. - Soil science, fertilizers, agronomy (1016a)

Sweden

Lundblad, Karl: Jordbruksförsök under 50 år. - Uppsala: Kungl. Lantbrukshögskolan och statens lantbruksförsök. 1957. 207 p. (Statens Jordbruksförsök. Meddelande 88) -
With 197 abstr. (1907-1938) and 846 ref. (1907-1957) - Swedish state experiments in agronomy. (1030a)

3.2 Soil

Hungary

Terts, István: A magyar talajtani irodalom bibliográfia. Bibliographie der ungarischen bodenkundlichen Literatur 1914-1953. - Budapest: Akadémiai Kiadó 1957. 88 p. -
With German introduction - 1418 ref. - Alphab. - Subject index. (1083a)

Braunerde

Tavernier, R.; G. D. Smith: The concept of braunerde (Brown forest soil) in Europe and the United States. - In: Advances in agronomy 9. 1957. p. 217-290. - Review with 155 citations. (1177a)

Humus

Kononova, M. M.: Die Humusstoffe des Bodens. Translated from Russian. - Berlin: Deutscher Verlag der Wissenschaften 1958. 341 S. With 410 ref. in Russian with German translation and 303 ref. in western languages. (1180a) Price 26 DM

Molybdenum

Williams, J. H.: The importance of molybdenum in agriculture, with special reference to British conditions. - In: N.A.A.S. Quarterly Review 38. 1957. p. 160-169. - Review with 62 citations. (1191a)

Mulching

Rowe-Dutton, Patricia: The mulching of vegetables. - East Malling: Commonwealth Bureau of horticulture 1957. 169 p. (Techn. Comm. 24) - Price 20 s - With 300 ref. (1029a)

Phosphorus

Hemwall, John B.: The fixation of phosphorus by soils. - In: Advances in agronomy 9. 1957 p. 95-113. - Review with 75 citations. (1198a)

Soil biology

Thorton, H. G.; Jane Meiklejohn: Soil microbiology. - In: Annual Review of microbiology 11. 1957 p. 123-148. - Review with 248 citations - 1952/56. (1108a)

Pochon, Jacques; H. de Barjac: Traité de microbiologie des sols. Applications agronomiques. - Paris: Dunod 1958. 686 p. - With 2485 citations - Author index. (1100a)

Nef, L.: Etat actuel des connaissances sur le rôle des animaux dans la composition des litières de forêts. - In: Agricultura 2. sér. 5. 1957. Nr. 3 p. 245-316 - With 161 ref. (1114a)

Zrazevskij, A. J.: Doždevye červi kak faktor plodorodija lesnyh počv. - Kiev: Akademija Nauk 1957. 260 p. - Earthworms in soil - With 262 ref. (1115a)

Soil conservation

Abstracts of recent published material on soil and water conservation. Comp. J. H. Stallings. - Washington: USDA 1955. 83 p. (ARS-41-5) (1158)

Soil geography

Ganssen, Robert: Bodengeographie mit besonderer Berücksichtigung der Böden Mitteleuropas. - Stuttgart: Köhler 1957. 219 p. - With 426 selected ref. - Classified. (1141a) - Price 17,50 DM.

Soil physics

Vomocil, J. A.: Measurement of soil bulk density and penetrability: a review of methods - In: Advances in agronomy 9. 1957. p. 159-175. - Review with 85 citations. (1152a)

3.3. Plant nutrition

Chelates

Wallace, A.: Metal chelates in agriculture. - In: Symposium on the use of metal chelates in plant nutrition. Report. - Palo Alto: Natl. Press 1956. p. 72-80. - With bibliogr. (BA) (1241b)

Copper

Alphen, Th. G. van: Bespuiting met koper op verschillende gewassen. - Wageningen: Centrum voor Landbouwdocumentatie 1957. 65 p. (Literatuuroverzicht 20) - Spraying crops with copper - Review with 368 ref. (1266a)

Hydroponics

Bibliography of the literature on soilless culture. - Naaldwijk 1957. 106 p. (1251A)

Magnesium

Jacob, Arthur: Magnesium. The fith major plant nutrient. - London: Staples Press 1958. 159 p. - Price 40 s.
With 419 citations - Translated from German. (1267A)

Manures

Bibliographie sur humus et fumier artificial. - Paris: Commission Internat. Ind. Agr. 1957. 13 p. (Bibliogr. 2764) (BA) (1297a)

Molybdenum

Molybdenum in plant nutrition 1945-1956. - Harpenden: Commonwealth Bureau of soils 1957 ... p. (Annotated bibliogr. 77) - 162 ref. (1272a)

Zinc

Thorne, Wynne: Zinc deficiency and its control - In: Advances in agronomy 9. 1957. p. 31-67. - Review with 193 citations. (1297)

3.4. **Field crops**

Cacao

Bibliographie des **travaux** récents effectués sur le cacaoyer. - Nouméa: Commission du Pacifique-Sud 1957. 33 p. (1447a)

Chicory

Bibliographie sur la **chicorée** - Paris: Commission Internat. Ind. Agr. 1957. 9 p. (Bibliogr. 2758) (BA) (1591a)

Citrus

Bibliographie sur la **chaleur** necessaire pour les agrumes. - Paris: Commission Internat. Ind. Agr. 1957. 19 p. (Bibliogr. 2779) (BA) (1358a)

Cocos

Peters, F. A.: Bibliographie des aspects alimentaires de la noix de coco ... - Nouméa: Commission du Pacifique-Sud 1956. 49 p. (Document technique 95) (1484b)

Coffee

Fiester, D. R.: Revisión de literatura sobre propagación asexual de de café por estaces. - In: Turrialba 7. 1957. Nr. 3 p. 57-64. (BA) (1438a)

Bibliographie sur la **composition** du **café vert,** le marc de café et **son** utilisation. - Paris: Commission Internat. Ind. Agr. 1956. 16 p. (Bibliogr. 2721) - 63 short abstr. (1442a)

Cotton

Bibliographie sur **égrenage** du **coton.** - Paris: Commission Internat. Ind. Agr. 1957. 11 p. (Bibliogr. 2778) (BA) (1344a)

Drug plants

Utkin, L. A.; A. F. Gammermann; V. A. Nevskij: Bibliografija po lekarstvennym rastenijam. - Moskva: Akademija Nauk SSSR 1957. 725 p. Old Russian manuscripts (443 ref.) - Russian books and papers (9085 ref.) - Author index - Index of plant names. (1417a)

Grain

Wilson, Harald Kirby: Grain crops. 2. ed. - New York: MacGraw Hill 1955. 396 p. - Price 6,50 $.
230 Ref. at end of chapters. (1397a)

Jerusalem artichoke

Pätzold, Christoph: Die Topinambur als landwirtschaftliche Kulturpflanze. - Bonn: Bundesministerium für Ernährung 1957. 161 p. With 1304 ref. - Alphab. - Author Index. (1575.)

Lavender

Bibliographie sur la **lavande** et la sauge sclarée. - Paris: Commission Internat. Ind. Agr. 1957. 13 p. (Bibliogr. 2755). (BA) (1484c)

Maize

Rabochová, D.; Š. Ulbrich; K. Mostovoj: Kukuřice. - Praha: Ústřední Zemědělská knihovna 1956. 96 p. (Prameny literatury 1/4)
1099 ref. - Classified - Internat. - Author Index. (1488b)

Bibliographie sur la **culture** du **mais.** - Paris: Commission Internat. Ind. Agr. 1957. 17 p. (Bibliogr. 2781) (BA) (1488c)

Gibridnaja kukuruza. Annotirovannyj ukazatel' literatury. - Mosk-

va: Gosudarstvennoje izdatelstvo kulturno-prosvetitelnoj literatury 1956. 115 short abstr. - Alphab. - Maize hybrids. (1490A)

Olives

Bibliographie sur la **confiserie** d'olives - Paris: Commission Internat. Ind. Agr. 1957. 17 p. (Bibliogr. 2768). (BA) 1516B1)

Peyotl

Bibliographie sur le **peyotl.** - Paris: Commission Internat. Ind. Agr. 1957. 18 p. (Bibliogr. 2775) - = Lophophora Williamsi in Mexico, for Mescalin. (BA) (1516B2)

Potatoes

Ginzburg, F. S.: Uveličim proizvodstvo kartofel'ia i ovoščej; annotirovannyj ukazatel' literatury. - Moskva 1956. 36 p. (BA) (1462a)

Kartoffel. By Wilhelm Rudorf (and others) - In: Handbuch der Pflanzenzüchtung 2. ed. Vol. 3. 1957 p. 1-195.
1200 ref. at end of chapters - Potatoe breeding. (1464a)

Miller, C. J.; D. C. Hendricks: Annotated bibliography of selected recent literature on quality, prices and merchandising of Irish potatoes - Lincoln: Nebraska U. Col. Agr. Dpt. Agr. Econ. 1956. 52 p. (Progr. Rep. 11). (BA) (1474a)

Siebeneick, Hans: Weltkatalog der Kartoffelsorten - Hamburg: Kartoffelwirtschaft 1957. 172 p. - With 72 ref. (1476b)

Rice

Vanossi, Lorenzo: Bibliografia del riso. - In: Riso 5. 1956 Nr. 12 p. 28-31; 6. 1957 Nr. 1 p. 23-24, Nr. 2 p. 23-25, Nr. 4 p. 22-23.
446 ref. - Italy - 1500/1900. (1526a)

Bibliographie sur le riz étuvé. - Paris: Commission Internat. Ind. Agr. 1956. 10 p. (Bibliogr. 2750) - 31 short abstr. (BA) (1529a)

Tobacco

Tabak. Dokumentationsdienst. - Berlin (East): Institut für Dokumentation. March 1955 ff.
Monthly - Series of cards (monthly 40 abstr.). (1552c)

3.5 Grassland and forage crops

Germany

Könekamp, Alfred H.: Veröffentlichungen des Institutes für Grünlandwirtschaft u. Futterbau in Landsberg/Warthe, des Instituts für Grünlandwirtschaft in Braunschweig-Völkenrode. - Braunschweig: I.f.Gr. 1957. 12 p.
447 ref. - Chronol. 1923/57. - In it: publications of Könekamp with 242 ref. (1622a)

Alfalfa

Hiepko, Gustav: Die Luzernenutzung mit besonderer Berücksichtigung der Forschung in den englisch sprechenden Ländern. Diss. - Bonn 1955. 147 p. - 175 ref. (1652a)

Grasses

Hanson, Angus Alexander; Howard L. Carnahan: Breeding perennial forage grasses - Washington: USDA 1956. 166 p. (Tech. bull. 1145) - Ref. p. 100-116. (1641a)

Grazing

Steen, Eliel: Betesinflytelser i svensk vegetation. Effects of grazing on Swedish vegetation. - Uppsala: Lantbrukshögskola 1958. 82 p. (Meddelanden från Statens Jordbruksförsök 89) - 290 ref. (1660a)

Lespedeza

Henson, Paul R.: The Lespedezas. - In: Advances in agronomy 9. 1957 p. 114-158.
Review with 135 citations. - As forage crops in USA. (1647a)

Panicum

Larson, Nellie G.: Panicum antidotale, P. maximum, and P. virgatum, a list of references since 1900. - Washington: USDA 1956. 13 p. - Subtropical fodder crops. (BA) (1654a)

3.6 Horticulture

Germany

Kucher, Walter: Literatur- und Forschungsbericht zur Geschichte des Gärtnertums. - In: Zeitschrift für Agrargeschichte 6. 1958 Nr. 1 p. 43-54. - Review on 22 German books. (1703a)

Gassner, Joachim Kurt: Veröffentlichungen auf den Gebieten des Gemüse- und Obstbaues in Deutschland. - Hiltrup: Landw.-Verl. 1957. 146 p.

1400 short abstr. and ref. - Classified - Vegetables 1953/56, fruits 1954/56. - Author index. (1707a)

Great Britain

Report. East Malling Research Station - Abstracts and index 1913/1953. - East Malling 1957. 175 p. - Annotated ref. (1709b)

Subject index of papers published from East Malling Research Station in Publications other than the Annual Reports between 1913 and 1933. - East Malling 1957. 58 p. Price 5 s - 600 ref. (1709c)

Camellia

Hume, H. Harold: Additions to Camellia literature. - In: Amer. Camellia Yearbook 1957. p. 264-269 - (BA) (1775a)

Satomi, E.: Bibliography of Japanese Camellia writings. - In: Amer. Camellia Yearbook 1957. p. 256-258. - (BA) (1775b)

Carrots

Bibliographie sur la carotte: culture et utilization. - Paris: Commission Internat. Ind. Agr. 1957. 16 p. (Bibliogr. 2756) (BA) (1793a)

Cemetery

Schweizer, Johannes: Kirchhof und Friedhof. - Linz: Oberöst. Landesverlag 1956. 276 p. - With 480 ref. (1741a)

Pears

Bibliographie sur les phénomènes biochemiques au cours du stockage des poires. - Paris: Commission Internat. Ind. Agr. 1957. 33 p. (Bibliogr. 2777) (BA) (1724a)

3.7 Grapes and wine

Germany

Weinbibliographie. [1] 1951 ff. - 1-5. in 'Der deutsche Weinbau' Mainz. - [6] 1956: 1957 as supplement to 'Weinberg und Keller' Frankfurt/Main: Horn. - Edited by Hans Moritz Meyer. - Includes Germany, Austria, Switzerland - In Vol. 6: 490 ref. - Author index. (1876)

3.8 Seeds

Catalogus van de bibliotheek van het centraal orgaan. - Wageningen: Centraal orgaan ter bevordering van de veredeling en de voor-

ziening met voortkwekingsmateriaal van landbouwgewassen 1955. 41 p. (Publicatie 7). Supp. 1-8 (1956/58). (1895a)

Bibliographie sur la inhibition de la germination des cereales. - Paris: Commission Internat. Ind. Agr. 1957. 11 p. (Bibliogr. 2788) (1899a)

Alvarez-Luna, E.: El efecto de la condiciones de almacenamiento sobre la longevidad y la viabilidad de las semillas de hortalizas; sintesis bibliografica. - In: Chapingo, Mexico 10. 1957. Nr. 61 p. 6-15 (BA) (1903a)

3.9. Plant protection

3.91 General

Bärner, Johannes: Literaturquellen und ihre Kürzungen aus der Bibliographie der Pflanzenschutzliteratur. - Berlin: Biologische Bundesanstalt 1958. 167 p.
A short-title list with 2400 periodicals. (1910a)

Internationale Pflanzenschutzliteratur. Zusammengestellt unter Mitarbeit von Johannes Bärner. - Berlin: Parey 1957. 48 p. - Price 3 DM. - 383 selected ref. on books and periodicals. - With prices - Author index. (1928c)

Brazil

Gonçalvez, C. R.: Bibliographical review of Brazilian plant sanition (in port.). - In: Bol. Fitosanit. 6. 1956 Nr. 3/4 p. 189-231. - (BA) (1932a)

Germany

Jahresberichte der Pflanzenschutzämter. - Braunschweig: Biol. Bundesanstalt [1] 1952 ff. [Covered years] - In [5] 1956: 1958 are 220 ref. of publications. (1936a)

Arsenic in soil

Toxicity to **plants** of arsenic in soil. - London: Science Library 1957. 2 p. (Bibliogr. series 753) - 44 ref. - 1931/1955. (1948a)

Plant diseases forecasting

Miller, Paul R.; Muriel J. O'Brien: Prediction of plant disease epidemics. - In: Annual review of microbiology 11. 1957. p. 77-110. Review with 224 citations. (1949a)

Weeds

Huffaker. C. B.: Fundamentals of biological control of weeds. - In: Hilgardia 27. 1957 Nr. 3. 157 p. - With 176 ref. (1964a)

3.92 Animal parasites and entomology

Bulgaria

Bures, Ivan; Asen Lazarov: Vrednite nasekomi za selskoto i gorskoto stopanstvo v Bulgarija. Bibliografija i katalog. - Sofija: Akademija na naukite 1956. 289 p. -
Noxious insects in agriculture and forestry - 1892 ref. - Alphab. - Index of insects in Latin and Bulgarian. (1993a)

Aphids

Langelüddeke, Peter: Blattläuse als Überträger von Kartoffelvirosen. Ein Literaturbericht. - In: Höfchenbriefe 10. 1957 Nr. 5. p. 233-260. - Review with 79 ref. - Free from Bayer-Pflanzenschutzabt. in Leverkusen (2005a)

Coccoidea

Morrison. Harold; Alice V. Renk: A selected bibliography of the coccoidea. - Washington: USDA 1957. 222 p. (Misc. publ. 734)
3000 selected ref. with annot. - Alphab. - 1758/1955 (BA) (2007a)

Insects as predators of virus diseases

Black, L. M.: Arthropod transmission of plant viruses. - In: Ent. Soc. Amer. No. Centr. Br. Proc. 11. 1956. p. 71-72. - With bibliogr. (BA) (2016b)

Orthoptera

Harz, Kurt: Die Geradflügler Mitteleuropas. - Jena: Fischer 1957. 494 p. - Price 69.20 DM. - With 520 ref. (2025a)

Termites

Die **Termiten.** Hrsg. von Hans Schmidt - Leipzig: Geest und Portig 1955. 309 p. - Price 32 DM. - 308 ref. at end of chapters. (2033a)

3.93 Bacterial, fungus, and virus diseases

Smut fungi

Fischer, George William; Charles Stuart Holton: Biology and control of the smut fungi - New York: Ronald 1957. 622 p. - Price 10 $..
With 3900 ref. - Alphab. (2046a)

Virus diseases

Yarwood, C. E.: Mechanical transmission of plant viruses. - In: Advances in virus research 4. 1957 p. 243-278. - Review with 220 citations (2055a)

3.94 **Plant diseases by host plants**

Fibre plants

Rataj, Karel: Škodlivé činitelé přadných rostlin. - Praha: Československá Akademie Zemědělských Věd 1957. 123 p. (Prameny literatury 2. 1/2).
1195 abstr. and ref. - Classified - Author index - in it: flax with 1002 items (2061a)

Lupines

Boyd, H.: Virus diseases of lupines; a list of references - Beltsville: USDA 1957. 6 p. (BA) (2069a)

Soybean

A **bibliography** of **viruses** infecting the soybean. By K. W. Kreitlow [and others]. - In: Plant diseases reporter 41. 1957. Nr.7 p. 579-588. 168 ref. - Alphab. (BA) (2074b)

Taylor, A. L.: A review of the literature pertaining to the soybean cyst nematode. - Washington: 1957. 7 p. (2074c)

Sugarcane

Edgerton, Claude Wilbur: Sugarcane and its diseases. - Baton Rouge: Louisiana State Univ. Press 1955. 290 p. (Biol. Science Ser. 3) - Bibliogr. p. 195-250. (2077a)

Tobacco

Tirelli, M.: Patologia del tabaco. Vol. 2: Bibliografia. - Firenze: Vallerini 1955. 422 p. (Instituto sperimentale per i tabachi. Roma. (Collana di publicazioni scient., techniche 9) (2074d)

Wolf, Frederick Adolph: Tobacco diseases and decays. 2 ed. Durham, N.C.: Duke Univ. Press 1957. 396 p. - 773 ref. at end chapters. (2075a)

Wood

König, Ewald: Tierische und pflanzliche Holzschädlinge. - Stuttgart: Holzzentralblatt 1957. 330 p. - Price 16.50 DM. - With 129 ref. (2067a)

3.95 Control, chemicals, and methods of plant protection

Abstracts

Advances in pest control research. - New York: Interscience 1. 1957 ff. - Yearly - In Vol. 1. 10 reviews with 1907 citations - Subject index. (2079a)

Pesticide abstracts and news summary. - London: Colonial Office. - 1.1955 ff. - Quarterly. Divided in sections. Sect. A: Insecticides, Sect. C.: Herbicides, arboricides, defoliants. (2079b)

Dieldrin

Ascher, K. R. S.: Insect resistance to dieldrin; a survey of the literature. - In Pakistan Rev. Agr. 2 1955. p. 69-73, 95-96. (BA) (2100a)

Fungicides

Horsfall, James Gordon: Mechanisms of fungitoxicity. - In: Advances in pest control research 1. 1957 p. 193-218. - Review with 79 ref. (2105a)

Herbicides

Crafts, Alden S.: The chemistry and mode of action of herbicides. - In: Advances in pest control research 1. 1957. p. 39-79 - Review with 139 citations. (2107A)

Insecticides

Ripper, W. E.: The status of systemic insecticides in pest control. - In: Advances in pest control research 1. 1957 p. 305-352. - Review with 241 citations. (2112A)

Banerjee, Saurendra Nath; Adyanath Basu: A classified bibliography of aldrin, dieldrin, isodrin and endrin insecticides. - In: Annals of zoology, Agra 1. 1956. p. 179-218. (2112b)

Fukuto, T. R.: The chemistry and action of organic phosphorus insecticides. - In: Advances in pest control research 1. 1957. p. 147-192. - Review with 148 citations. (2117a)

Radioisotopes in pest control

Dahm, Paul A.: Uses of radioisotopes in pesticide research. - In: Advances in pest control research 1. 1957. p. 81-145. - Review with 323 citations. (2123a)

Residues of pesticides

Schechter, Milton S.; Irwin Hornstein: Chemical analysis of pesticide residues. - In: Advances in pest control research 1. 1957. p. 353-447. - Review with 462 citations. (2124a)

Sun, Yun-Pei: Bioassay of pesticide residues. - In: Advances in pest control research 1. 1957. p. 449-496. - Review with 112 citations. (2124b)

Soil fungi

Kendrick, J. B.; G. A. Zentmyer: Recent advances in control of soil fungi. - In: Advances in pest control research 1. 1957. p. 219-275. - Review with 236 citations. (2087a)

Spraying

Fulton, R. A.: A list of publications on liquefied gas aerosols. - Washington: USDA 1957. 48 p. (ARS-33-37) (BA) (2125a)

Toxicology of pesticides

Barnes, J. M.: Control of health hazards associated with the use of pesticides. - In: Advances in pest control research 1. 1957. p. 1-38. - Review with 139 citations. (2126a)

Select bibliography on the toxicology of pesticides to man and animals 1953/55. - In: World Health Organ. B. **16.** 1957. Nr. 6 p. 1219-1241. (BA) (2126b) - 457 ref.

4. Animals

4.1 General, care and breeding

Germany

Witt, Max: 10 Jahre Max Planck-Institut für Tierzucht und Tierernährung Mariensee-Trenthorst - Hannover: Schaper 1957. 48 p. With 211 ref. of publications. (Witt: 150 ref.) (2158a)

Great Britain

Trow-Smith, Robert: A history of British livestock husbandry to 1700 - London: Routledge 1957. 286 p. - Price 32 s. - 'With excellent bibliography'. (2159A)

Poland

Przeglad naukowej literatury zootechnicznej. - Warszawa: Państwowe Wydawnictwo rolnicze i leśne. 1. 1955 ff. - Bimontly with abstracts from foreign countries and references from Poland. (2163a)

USSR

Referativno-bibliograficeskij spravocnik po životnovodstvu za god 1952. - Moskva: Selchozgiz 1956. 390 p.
1598 abstracts. - Classified - Animal husbandry - USSR - Author index. (2163b)

Peredovye metody soderzanija skota. Rekomendatelnyj spisok literatury. - Leningrad: Ministerstvo kultury RSFSR 1956. 22 p.
Methods of animal husbandry. - 60 abstr. - Classified - 1952/56. (2164a)

Rabbit

Robinson, Roy: Genetic studies of the rabbit. - Hague: Nijhoff 1958. 330 p. (Bibliographia genetica 17. Nr. 4/4) - Price 36 hfl.
670 ref. (2204a)

Cattle

Wiesner, Ekkehard: Beziehungen zwischen Menge und Zusammensetzung des Serumeiweißes und der Leistung und Körperform bei Kühen des schwarzbunten Niederungsrindes - Berlin: Akademieverlag 1957. 76 p. (Wiss. Abh. 28) - Price 11 DM - With 174 ref. (2247a)

Pigs

Bundy, Clarence E., Ronald V. Diggins: Swine production. - Englewood Cliffs N.Y. Prentice-Hall 1956. 337 p. With bibliogr. (2261a)

4.2 Animal nutrition

General

Charton, A.; G. Lesbougries: Nutrition des mammifères domestiques. - Paris: Vigot 1957. 479 p. -
2000 cit. at end of chapters. (2273b)

Antibiotics

Lassiter, C. A.: Antibiotics as growth stimulants for dairy cattle: a review. - In: Journal of dairy science 38. 1955. p. 1132-1138. - Review with 130 ref. (2277a)

Schönherr, Wolfgang: Die physiologischen Wirkungen der Antibiotika bei den verschiedenen Tierarten - Berlin: Akademieverlag 1957. 84 p. (Beihefte zu Archiv der Tierernährung 7) - Price 7.40 DM. - With 379 ref. (2278a)

Die **Bedeutung** der **Antibiotica** in der Tierernährung und Lebensmittelhygiene unter besonderer Berücksichtigung von Aureomycin. Internationales Symposium Wien 1956. - Aulendorf: Cantor 1957. 197 p. - With 236 ref. (2279a)

Cattle

Tribe, D. E.; R. B. Cumming: Nutrition and fertility in the bull. - In Veterinary reviews and annotations 1. 1955 p. 69-81. - Review with 95 citations. (2316a)

Cottonseed meal

Rubins, K.; K. L. Baringer; D. B. Skau: Improved cottonseed meals for feeding poultry and swine 1944/55; an annotated bibliography. - Washington: USDA 1957. 91 p. (ARS-72-10) (BA) (2280a)

Feeding stuffs

Staehlin, Adolf: Die Beurteilung der Futtermittel 2: Spezielle Beurteilung - Radebeul: Neumann 1957. 807 p. (Handbuch der landwirtschaftlichen Versuchs- und Untersuchungsmethodik 12) - With 1886 citations (2285b)

Proteins

Wagner, Joachim: Aminosäuregehalt einiger Futtermittel und deren biologische Verwertung. - In: Kühnarchiv 71. 1957. Nr. 1 p. 1-74. - With 249 ref. (2281a)

Vitamins

Vitamins B_{12} and **antibiotics** in animal nutrition; annotated bibliography. - Rahway N.Y.: Merk 1957. 100 p. (BA) (2327)

4.4. **Fisheries**

General

Scattergood, Leslie W.: English translations of fishery literature, further listings. - Washington: U.S. Dept. of Interior. Fish and Wildlife service 1956. 32 p. (Spec. scientific report Fisheries 176) - 307 ref. - Alphab. - Subject index. (2382b)

Canada

Index and **titles.** Publications of the Fisheries Research Board of Canada 1901-1954. - Prepared by Yvonne Bishop [and others] - Ottawa: F.R.B. 1957. 209 p.
1600 ref. - Arranged by series and periodicals. - Dictionary index. (2401a)

Great Britain

See fisheries. Their investigations in the United Kingdom. Ed. by Michael Graham. - London: Arnold 1956. 487 p. - Price 105 s. - With 540 ref. - Alphab. (2396b)

United States

Available leaflets on fisheries. Rev. - Washington: U.S. Dept. of Interior. Fish and wildlife service 1955. 18 p. (Fishery leaflet 9) - 600 ref. - Classified (2418a)

Fishery publication index 1920/1954 - Washington: U.S. Fish and wildlife service 1955. 254 p. (Circ. 36) - A subject, author and series index. (2418b)

Salmon

Wilimowsky, Norman J.; Warren O. Freihofer: Guide to literature on systematic biology of pacific salmon. - Washington: Fish and wildlife service 1957. 266 p. (Spec. scientific report. Fisheries 209) - 1400 annotated ref. - Alphab. - Subject index (2446a)

Saltwater fisheries

Hochseefischerei und **Fischverarbeitung.** Dokumentationsdienst. - Berlin [East]: Institut für Dokumentation. - 1955 ff.
Monthly - Series of cards (monthly 40 abstr.) (2447a)

Beverton, Raymond J. H.; Sidney J. Holt: On the dynamics of exploited fish populations - London: H.M. Stat. Off. 1957. 533 p. - Price 126 s. - With 400 ref. - Alphab. (2449d)

5. Agricultural engineering

General

Henderson, Silas Milton; Russel Lawrence Perry: Agricultural process engineering - New York: Wiley 1955. 402 p. - Price 8.50 $ - 171 ref. at end of chapters. (2508a)

Landmaschinen. Dokumentationsdienst. - Berlin [East]: Institut für Dokumentation 1956 ff.
Monthly - Series of cards (monthly 70 abstr.) (2529a)

Bulletin bibliographique du **Centre national** d'études et d'experimentation de machinisme agricole. - Antony 1. 1957 ff. (2529b)

Germany

Verzeichnis des landtechnischen Schrifttums in der Bundesrepublik Deutschland nach dem Stand vom 31.13.1957 - Frankfurt/Main: Max Eyth-Gesellschaft 1958. 19 p.
References on books and pamphlets (187), on periodicals (11), on standards (Normblätter) (126) - 1945/1957 (2512a)

Tractors

Traktoren. Dokumentationsdienst. - Berlin [East]: Institut für Dokumentation 1954 ff.
Monthly - Series of cards (monthly 40 abstr.) (2548a)

Agricultural buildings

Landwirtschaftliche Produktionsbauten. Dokumentationsdienst. - Berlin [East]: Institut für Dokumentation. 1957 ff.
Monthly - Series of cards (monthly 40 abstr.) (2553a)

Pume, Dimitrij; Marie Pumeová: Zemědělské stavitelství - Praha: Čsl. Akademie Zemědělských věd 1957. 76 p. (Prameny literature 2/3) 1252 ref. - Classified - Internat. - Author index - English, German and Russian introduction (2557a)

Explosives in agriculture

Bibliographie sur **emploi** des explosifs en agriculture (1950-1955) - Paris: Commission Internat. Ind. Agr. 1957. 8 p. (Bibliogr. 2761) [BA] (2634b)

Hydrology

Busch, Karl-Franz: Wasserversorgung in Stadt und Landwirtschaft - Leipzig: Teubner 1956. 362 p. - With 1360 ref. - Germany and Austria. (2585a) - Price 21,60 DM

Irrigation

Hauk, Ivan E.: Irrigation engineering. 2 vol. - New York: Wiley 1.: Agricultural and hydrological phases 1951. 545 p.; 2.: Projects, conduits and structures 1956. 531 p. - Price 11 and 14 $ - 812 and 544 ref. at end of chapters - USA (2610a)

Reclamation

Przeglad literatury naukowej i technicznej z dziedziny melioracji i lakarstwa. - Warszawa: Państwowe wydawnictwo rolnicze i leśne 1. 1957 ff. - Abstracts - Internat. (2627a)

Krupnova, G. F.: Osušenie i osvoenie zaboločennyh zemel'; rekomendatel'nyj ukazatel' literatury. - Leningrad 1957. 31 p. [BA] (2627b)

Sewage

Meinck, Fritz; Hans Stoof; Heinrich Kohlschütter: Industrieabwässer. 2. ed.. - Stuttgart: Fischer 1956. 527 p. - Price 48 DM - 868 ref. at end of chapters. (2602a)

Imhoff, Karl; Gordon Maskew Fair: Sewage treatment. 2. ed. - New York: Wiley 1956. 338 p. - Price 7.50 $ - Bibliogr. p. 310-321 (2602c)

Small watersheds

Larson, Nelli G.: Small watersheds; a selected list of references - Washington: USDA 1957. 16 p. (Library list 63) [BA] (2613b)

6. Social sciences of agriculture

6.1 Rural sociology

United States

Rural sociology. A trend report and bibliography. - In: Current sociology 6. 1957 Nr. 1 p. 1-75 - With 597 abstr. and ref. - Classified, (2658a)

Stanton, J. R.; R. R. Mount: Levels of living of U.S. farm families; selected annotated references 1940/55. - Washington: USDA 1957. 52 p. (Misc. publi. 746). [BA] (2658b)

6.2 Agricultural economics

Europe

Die **europäische Zusammenarbeit** auf dem Gebiete der Landwirtschaft. Einführender Bericht von Werner Schlebitz. - Frankfurt/Main: Forschungsinstitut der deutschen Gesellschaft für auswärtige Politik 1957. 88 p. (Aktuelle Bibliographien des Europaarchivs 11) 577 ref. - Author and subject index. (2703a)

Germany

Ideengeschichte der Agrarwirtschaft und Agrarpolitik im deutschen Sprachgebiet. 2 vol. 1.: Sigmund v. Frauendorfer: Von den Anfängen bis zum ersten Weltkrieg - München: Bayer. Landw. - Verlag 1957. 580 p. - Price 64 DM - With 1048 selected references (2703b)

United States

Production economics publications currently available - Washington: USDA 1956. 50 p. (ARS-43-41) [BA] (2735a)

6.3 Agricultural labour

Bail, Albrecht: Begriff und Messung der Arbeitsproduktivität im landwirtschaftlichen Betrieb - Berlin: Akademieverlag 1957. 328 p. - Price 23,50 DM - With 426 ref. (2789b)

Accidents

Györi, Pálné; Márta Mosonyi: Mezögazdasági munkaártalmak és balesetek és az ellenük való védekezés. Annotát bibliográfia. - Budapest-Gödöllö: Agrártudományi egyetem központi könyvtára 1956. 261 p.
- Health, safety and accidents in agriculture - 679 abstr. - Mostly Hungary - Author index. (2792a)

6.5 Marketing

Sources of **economic information** on food marketing for consumers. - Boston: New England Extension Marketing Information Off. 1956. 10 p. [BA] (2801a)

Livestock and meat

Fowler, Stewart H.: The marketing of livestock and meat. - Danville, Ill.: Interstate 1957. 622 p. - 283 ref. at end of chapters. (2822a)

6.8 Cooperation

Selected bibliography on **cooperation.** - Rome: FAO 1957. 84 p. [BA] (2873a)

List of publications U.S. Farmer Cooperative Service - Washington: USDA 1957. 49 p. (F.C.S. Inform. 4). [BA] (2876a)

Publications on **farm credit cooperatives** - Washington: USDA 1957. 6 p. Farm Credit Adm. C. A29). [BA] (2876b)

6.9 Agricultural statistics

Fuentes de **estadística agrícola** en la Biblioteca del Instituto Nacional de Granos y Elevadores - Buenos Aires 1956. 59 p. (C. tec. 1284). [BA] (2880b)

7. Agricultural products

Antibiotics in foods

Bibliographie sur **utilisation** des **antibiotiques** dans la nutrition et l'industrie alimentaire. -Paris: Commission internat. Ind. Agr. 1957. 32 p. (Bibliogr. 2759). [BA] (2919a)

Baking

Bibliographie sur **pain vitaminisé.** - Paris: Commission Internat. Ind. Agr. 1957. 14 p. (Bibliogr. 2754). [BA] (2921b)

MacCance; E. M. Widdowson: Breads white and brown. Their place in thought and social history. - London: Pitman 1956. 174 p. History of bread in antiquity and in England. - With 720 ref. - Alphab. (2921c)

Corrosion in food industry

Bibliographie sur la **corrosion** dans les industries agricoles et alimentaires - Paris: Commission Internat. Ind. Agr. 1957. 36 p. (Bibliogr. 2774) [BA] (2982a)

Refrigeration

Neumann, Karlheinz: Grundriß der Gefriertrocknung. 2. ed. - Göttingen: Musterschmidt 1955. 256 p. - Price 24 DM - With 500 ref. - Alphab. (2962A)

Starch

Bibliographie sur **l'amidonnerie** du mais.. - Paris: Commission Internat. Ind. Agr. 1957. 14 p. (Bibliogr. 2789) [BA] (3004b)

Sugar industry

Knochel, E.: Deutsche Dissertationen betr. die Zuckerindustrie (ab 1945). - In: Zeitschrift für Zuckerindustrie 7. 1957 Nr. 2 p. 78-80. [BA] (3027a)

Bibliographie sur **pectine** de la betterave sucrière, - Paris: Commission Intern. Ind. Agr. 1957. 9 p. (Bibliogr. 2784). [BA] (3032a)

Olbrich, Hubert: Die Melasse. - Berlin: Institut für Gärungsgewerbe 1956. 96 p. - With 178 citations. (3033a)

7.2 Dairy science

Butter

Mohr, Walter; Karl Koenen: Die Butter. - Hildesheim: Mann 1958. 628 p. - 843 citations at end of chapters. (3072a)

Milk quality and fodder

Orth, Adolf; W. Kaufmann; E. Weinert: Die Beeinflussung der Milchqualität durch das Futter. Literaturstudie. - In: Kieler milchwirtsch. Forschungsberichte 8. 1956. Nr. 6 p. 569-618. - With 461 ref. (3103a)

Swope, D. A.: Factors associated with level of fluid milk consumption; a summary of the literature on research findings - Philadelphia: Penns. State Univ., Dpt. of Agr. Econ. and Rural Sociol. 1956. 32 p. [BA] (3107a)

7.3 Beer and alcohol

Bibliography on **alcohol production** and use of agricultural crops as a source of motor fuels. - Washington: USDA 1956. 4 p. (ARS-71-7). (BA) (3146a)

8. Forestry

Abstracts

Světová lesnická literatura. - Zbraslav, Czechosl.: Výzkumný ústav lesn'iho hospodářství 1956.
World forestry literature (3246a). Continued by:

Prehled lesnické a myslivecké literatury. - Praha: Československá Akademie zemědělských věd 1. 1957 ff.
Review of forestry and wildlife literature - Monthly - Classified (Oxford class.) - Internat. - In vol. 1 3000 abstr. (3235a)

Forst- und holzwirtschaftliche Umschau - Berlin: Parey 1. 1958 ff. - Price 1958: 68 DM
Abstracts - Quarterly - Internat. (in German language complete, Europe extensive, overseas selected) (3235b)

Czechoslovakia

Hofman, Jaroslav: Jitřenka Klicperová: Československá lesnická bibliografie 1950-1952. Bibliographia silviculturae Čechosloveniae. - Zbraslav: Výzkumný ústav lesního hospodářství 1956. 149 p. (Lesnická dokumentace 1-4)
4014 ref. - Classified (by Flury) - Author index (3378a)

Germany

Immel, Richard: Das Schrifttum über das Forstwesen, Holzwirtschaft, Jagd, Fischerei und Naturschutz in Hessen und Rheinland-

Pfalz. - Mainz: Schmidt 1958. 1039 p. - Price 90 DM.
20000 ref. - Classified - Author and subject index (3302a)

United States

Forest history sources of the United States and Canada. - St. Paul: Forest History Foundation 1956. [BA] (3391a)

Israelson, M. A.: Publications of the Intermontain Forest and Range Experiment Station 1951/55, and the Northern Rocky Montain Forest and Range Experiment Station 1951/54. - Ogden, Utah 1956. 35 p. (Intermontain Forest and Range Exp. Stat. Res. Paper 29 (sup). [BA] (3405a)

Bibliography of **teaching aids** on America's forests and forest industries. - Washington: American Forest Products Industries 1957. 14 p. (BA) (3398)

USSR

Literatura po lesnoj i bumaznoj promyslennosti. - Moskva: Centralnaja naučnotehničeskaja biblioteka Ministerstva lesnoj promyšlennosti SSSR. 1. 1955 ff. - Literature on forest and paper industry. (3341a)

8.2 Special forestry, arranged by Oxford classification

111.8 Forest climate

Dordick, Isadore L.; G. T. Thuronyi: Selective annotated bibliography on climate of the forest. - In: Meteorol. abstracts 8. 1957. p. 515-539. (3408A)

114 Soil

Plaisance, G.: Bibliographie des sols forestiers (répertoire international). - Dôle 1957. 165 p. - Published by the author (14, rue du College) - 2200 ref. (3409a)

165 Genetics

Bouvarel, P.: Génétique forestière et amélioration des arbres forestières 1: In: Bull. de la Societé botanique de France 103. 1956 Nr. 1/2 p. 35-74. - With 262 ref. (3413a)

174.7 Coniferae

Fritz, E.: California coast redwood [Sequoia sempervirens].

An annotated bibliography to 1955. - San Francisco: Amer. Resource Management 1957. 267 p. [BA] (3429a)

237.4 **Fertilizing**

Davis, Elizabeth Gould: Fertilizing forest trees 1950-57. A list of references in English language. - Washington: USDA 1957. 8 p. [BA] (3456b)

383 **Forest roads**

Hafner, Franz: Forstlicher Strassen- und Wegebau. - Wien: Fromme 1956. 379 p. - With 290 ref. (3467a)

Hafner, Franz: Das deutschsprachige Fachschrifttum über den Waldwegebau . . . In: Forst- und Holzwirt 12. 1957 Nr. 16 p. 267-270 [BA] (3467b)

411 **Natural and biological control**

Thalenhorst, W.: Biologischer Forstschutz: Therapie und Hygiene. Sammelref. 1943/54. - In: Forstarchiv 27. 1956 p. 217-226 - Review with 146 ref. (3468b)

5 **Forest mensuration**

Prodan, M.: Aus der Holzmeßlehre. - In: Forstarchiv 25. 1954 Nr. 6. p. 129-137. - Review with 114 ref. (3476a)

587 **Photogrammetry**

Choate, Grover A.: A selected annotated bibliography of aerial photo interpretation keys to forest and other natural vegetation. - In: Journal of forestry 55. 1957 Nr. 7 p. 513-515 - 23 short abstr. [BA] (3477b)

86 **Pulp and paper**

Bibliography of articles on **mechanical pulping.** - In: Canad. Pulp & Paper Assoc. Tech. Sect. Proc. [1.:] 41.1955 p. 391-406. [1901-1951]; [2.:] 42. 1955 p. 549-564. [BA] (3530a)

861.19 **Sulphit liquor utilization**

Marshall, H. B.; A. I. Cunningham: The utilization of splent sulphit liquor. A bibliography of the literature published during 1955. - In: Tappi 39. 1956 p. 171A-186A [BA] (3531b)

892.4 **Bark**

Marian, J. E.; A. Wissing: The utilization of bark I. Index to bark

literature. - Stockholm: Svenska Träforskinst. 1957. 46 p. (Meddel. 90 B) [BA] (3532b)

9 Veterinary science

USSR

Referativno-bibliograficeskij spravocnik po veterinarii 1952. - Moskva: Selchozgiz 1956. 392 p.
1904 abstr. and ref. - USSR (3628)

Laboratoriye metody issledovannija veterinarii. 4 vol. - Moskva: Goz. Izd. Selchozj. Lit.
In it: Vol. 4. 1957 p. 463-500: Borisovič, F. K.: Veterinarna bibliografija. With 1) Books 1825/1955 - 187 ref., 2) Periodicals 70 ref., 3) Laboratory methods 800 ref. (3628.)

Yugoslavia

Setinski, Z.: List of scientific research studies, reports and papers from the field of parturiation, sterility and artificial insemination of domestic animals 1945/55 [Serbokroat.] In: Veterinarija, Sarajevo 5. 1956 p. 421-429 [BA] (3618a)

9.3 Diseases

Brucellosis

Löffler, Wilhelm; Dante L. Moroni; Walter Frei: Die Brucellose als Anthropo-Zoonose undulans. - Springer: Berlin 1955. 193 p. - Ref. p. 143-166 - Price 29.60 DM (3668a)

Thomson, Axel: The eradication of bovine brucellosis in Scandinavia. - In: Advances in veterinary science 3. 1957. p. 197-240. - Review with 107 ref. (3751a)

Renoux, Gerard: Brucellosis in goats and sheep. - In: Advances in veterinary science 3. 1957. p. 241-273. - Review with 99 ref. (3776a)

Cattle diseases

Diseases of cattle. - Evanston, Ill. 1956. 752 p. - 1023 ref. at and of chapters. (3750a)

Clostridial diseases

Smith, L. DS.: Clostridial diseases of animals. - In: Advances in veterinary science 3. 1957 p. 463-524. - Review with 200 ref. - Also botulism and tetanus. (3827A)

Footh and mouth diasease

Röhrer, Heinz; Gottfried Pyl: Das Maul- und Klauenseuchevirus. - In: Handbuch der Virusforschung 4. 1958 p. 379-458 - With 496 cit. (3695a)

Intestinal diseases (Cattle)

Lovell, Reginald: Intestinal diseases of young calves with special reference to infection with Bacterium coli. - In: Veterinary reviewus and annot. 1. 1955 p. 1-32 - Review with 89 ref. (3751b)

Mineral deficiencies

Leroy, André M.; Geneviève Charlet-Lery; Jaques Delage: Tierernährungsmängel in Frankreich. - **Kirchgeßner,** Manfred: Mineralstoff- und Spurenelementuntersuchungen ... - Plieningen: Find 1956. 128 p. (Schriftenreihe über Mangelkrankheiten 6) - Price 17,50 DM - With 298 cit. and ref. (3687a)

Muscular distrophy

Blaxter, K. L.: Muscular distrophy. - In: Veterinary reviews and annot. 1. 1955 p. 91-114 - Review with 160 cit. (3695a)

Neuropathology

Innes, J. R. M.; L. Z. Saunders: Diseases of the central nervous system of domesticated animals and comparisons with human neuropathology. - In: Advances in veterinary science 3. 1957 p. 33-196. - Review with 720 ref. - 1900/56. (3695b)

Poultry diseases

Grzimek, Bernhard: Krankes Geflügel. Handbuch der Geflügelkrankheiten. Neubearb. von Irmgard Gylstorff-Sassenhof. 7 ed. - Berlin: Pfenningstorff 1957. 376 p. - Price 14 DM. - With 958 ref. (3725)

Poultry leucosis

Matschke, Ehrhardt: Die Leukose des Hausgeflügels. Eine literarische Studie. Diss. - Gießen 1956. 35 p. With 90 ref. (3729a)

Sterility

Reproduction and infertility. Centennial symposium. - East Lansing: Michigan State Univ. Agr. Exp. Stat. 1955. 112 p. - With 440 ref. at end of chapters. (3707)

Teschen disease (Swine)

Davis, Elizabeth Gould: Teschen disease (Porcine encephalomyelitis) 1950/56, a list of selected references. - Washington: USDA 1956. 8 p. [BA] (3791a)

Toxicology

Garner, R. J.: Veterinary toxicology. - London: Baillière 1957. 415 p. - Price 35 s - With 800 cit. at end of chapters. (3714a)

9.5 **Parasitology**

Borchert, Alfred: Lehrbuch der Parasitologie für Tierärzte. 2. ed. - Leipzig: Hirzel 1958. 454 p. - Price 32.75 DM - With 449 ref. (3811)

Metody izucenija parazitologičeskoj situacii i bořba s parazitozami sels'skohozjajstvennyh životnyh - Kiev: Akad. nauk 1957. 208 p. - With 300 ref. - Research and control of agricultural parasites. (3823b)

Literatura po parazitologii Kazahstana. Referirovannaja bibliografija. - Alma-Ata: Akademija Nauk 1957. 311 p.
1365 short abstr. - Alphab. - Kasakstan - Index of parasites. [BA] (3824a)

9.59 **Transmission of tick-borne diseases**

Neitz, W. O.: A consolidation of our knowledge of the transmission of tick-borne diseases. - In: Onderstepoort J. Vet. Res. 27. 1956. Nr. 2. p. 115-163. [BA] (3832a)

Helminths

Gordon, Hugh Mcl.: Helminthic diseases. - In: Advances in veterinary science 3. 1957 p. 287-351. - Review with 380 ref. (3816a)

Hörning, Bernd: Die sowjetische Helminthologie. Literaturübersicht der Jahre 1946-1953. - Berlin: Osteuropainstitut 1957. 99 p. (Bericht 30) - Review with 780 ref. - Alphab. (3823a)

Tapeworm

Whitten, L. K.: The treatment of tapeworm infestations in man and animals. - In: Veterinary reviews and annot. 2. 1956 p. 1-24. - Review with 97 cit. (3826b)

9.7 Special groups

Anaesthesiology

Hall, L. W.: Anesthesiology. - In: Advances in veterinary science 3. 1957. p. 1-32. - Review with 167 ref. (3835a)

Artificial insemination

Vandeplassche, M.: Artificial insemination of cattle with special reference to fertility and disease control. In: Advances in veterinary science 3. 1957. p. 397-461. - Review with 400 ref. (3866A)

Schiller, Oskar: Die Verdünnung und Konservierung von Bullensperma im Schrifttum. Diss. - Gießen 1957. 125 p. - With 255 ref. - Alphab. (3866b)

Hof, Hermann: Die künstliche Besamung des Schweines im Schrifttum. Diss. - Gießen 1956. 64 p. - With 133 ref. (3866c)

Meat hygiene

Lerche, Martin; Heinrich Rievel; Viktor Goerttler: Lehrbuch der tierärztlichen Lebensmittelüberwachung. 3 ed. - Jena: Fischer and Schaper: Hannover 1957. 1078 p. - 1900 ref. at end of chapters. (3871b) - Price 148 DM.

* *
*

New Agricultural Periodicals

(also Changes of Title, and Cessations)
from January 1955 onwards

Acta agriculturae scandinavica; supplementum. 1- . Stockholm, 1957- .

Agradata. (Chas. Pfizer Co. Inc.). 1- . Terre Haute, Indiana, Aug 1957- . Monthly.

Agricultural Producers Labor Committee. Information bulletin. 1- . Los Angeles, 9 Jan 1957- . Irregular. (129 So. Alvarado St., Los Angeles 57).

Andhra (*state*). Dept of Agriculture and Fisheries. Administration report. [?1-]. Madras, 1954/55- . Annual.

Arkansas Agricultural Experiment Station, Fayetteville. Special report. 2; 1957.

Arkansas. University. Dept of Animal Husbandry & Veterinary Science. Proceedings of the Arkansas Formula Feed Conference. [?1-]. Fayetteville, 1956- .

Bari. Stazione Agraria Sperimentale. Relazione sull'attività. [?1-]; 1954/55- .

Bayer Pflanzenschutz-Kurier. 1- . Leverkusen, 1956- . Monthly.

Bosques y maderas de Chile. 1- ; 1957- .

British Columbia Forest Service. Forest research review. [?1-]; 1956- .

Bucharest. Institutul de Cercetari Piscicole. Analele. 1- ; 1956- .

California forestry and forest products. 1- ; 1957- . (Calif. University School of Forestry, Forest Products Laboratory).

Ceylon coconut journal. 1- . Colombo, Oct/Dec 1956- . Quarterly.

Ciencia avicola. (Academia Mexicana de Ciencia Avicola). 1- . Mexico, D.F., Oct 1957- . Monthly.

Connecticut Agricultural Experiment Station, Storrs. Miscellaneous publication. 1- ; July 1957- .

Cooperaminas. Boletim mensal. 1- . Belo Horizonte, Secretaria da Agricultura . . ., June 1955- .

Corporación Venezolana de Fomento. Serie Amarilla. 1- . Caracas, 1957- . Irregular.

Dunedin. University of Otago Marine Biological Station, Portobello. Collected reprints. 1- . Portobello, N.Z., 1957- .

Entomologia experimentalis et applicata. 1.1- . Amsterdam, Feb 1958- . Quarterly. Annual subscription: £3.4s.0d. (North Holland Publishing Company).

Et ve balik kurumu. Balikcilik arastirma merkezi. Series Marine research. 1- . Istanbul, 1956- . Irregular.

FAO. Collection FAO. Série législative. 1- . Rome, 1957- . (*Also issued in English as:* Legislative series.)

FAO fisheries bulletin. *Ceased with* 10.4 (Oct/Dec 1957).

Fertilité. Informations on tropical and subtropical fertilization: 1- . Paris, [1956-].

Fischwirtschaft. Bremerhaven. *Ceased with* 8 (1956)); *merged with* Algemeine Fischwirtschaftszeitung.

Fishery news of North Central. (American Fisheries Society, North Central Region). 1- . Ames Iowa, May 1957- .

Forest history newsletter. (Forest History Foundation). 1- . St. Paul, Spring 1957- .

Gold Coast Agricultural and Fisheries Development Corporation. Report and accounts. Accra, 1950-1954/55. *Ceased; absorbed in:* Gold Coast Agricultural Development Corporation. Report and accounts.

Gold Coast Agricultural Development Corporation. Report and accounts. Accra, 1955/56- . *Supersedes:* Gold Coast Agricultural Produce Marketing Board, Annual report, *and* Gold Coast Agricultural and Fisheries Development Corporation, Report and accounts.

Guiana, British. Dept of Agriculture. Farmer's bulletin. 1- . [?Georgetown], ?1957- .

Guiana, British. Dept of Agriculture. Farmer's leaflet. 1- . [?Georgetown], ?1957- .

Guild of Agricultural Journalists year book. [1]1958- . London, 1958- . (Graham Cherry Organisation, Eagle House, Jermyn Street, London, SW1). Price: £1.1s.0d.

Halle. Universität. Landwirtschaftliche Fakultät. Kühn-Archiv: Sonderheft. 1- ; [1957-].

Hokkaido University, Sapporo. Faculty of Fisheries, Hakodate. Data record of oceanographic observations and exploratory fishing. 1- ; 1957- .

Jamaica. Banana Board Research Department. Occasional bulletin. 1- . Kingston, Mar 1958- .

Journal of refrigeration. 1.1- . London, 1957- .

Krasnodar. Vsesoyuznyi Nauchno-Issledovatel'skii Institut Tabaka i Makhorki im. Mikoyana. Byulleten' naucho-tekhnicheskoi informatsii. 3; 1957.

Kühn-Archiv: Sonderheft. *See under:* Halle. Universität.

Louisiana agriculture. (Louisiana Agricultural Experiment Station). 1- . Baton Rouge, Fall 1957- . Quarterly.

Manitoba. Forest Service. Forest resources inventory. Report. 1(1956) - . Winnipeg, 1957- .

Market growers journal. Louisville. *Ceased with* 86.9 (Sept 1957); *absorbed by* American vegetable grower.

Maryland. University. Seafood Processing Laboratory, Crisfield, Md. Bulletin. 1- ; 1957- .

Merida. Instituto Forestal Latinoamericano de Investigación y Capacitación. Boletín. 1- ; April 1957- .

Michigan. State University of Agriculture and Applied Science, East Lansing. Proceedings, National Symposium on Nitrofurans in Agriculture. 1- ; 1956- .

Obaly. Zpravodajství obalové techniky. 1.1/2- . Praha, Ministerstvo Potravinářskeho Prumyslu s Výzkumným Ustavem Obalovým, 1955- .

Omsk Sibirskii Zonal'nyi Nauchno - Issledovatel'skii Veterinarnyi Institut. Buylleten nauchno-tekhnicheskoi informatsii. 1- ; 1956- .

Ontario Agricultural College and Experimental Farm, Guelph. Dept of Agricultural Economics. Performance of the Canadian economy. [?1-]; 1955- . Annual.

Österreichischer Fischereiverband. Schriften. 1- . Wien, 1957- . Irregular.

Pacific North-West Forest and Range Experiment Station. Silvical series. 1- ; 1957- .

Physics of fluids. 1.1- . New York, Jan/Feb 1958- . Annual subscription: U.S. and Canada $10, elsewhere $11. (American Institute of Physics, 335 East 45 Street, New York 17, N.Y.)

Revista de investigaciones forestal. 1.1/2- . Buenos Aires, 1957- .

Rice review. (Rural and Land Economics Division, JCRR). T'ai-pei. [?1- ; ,1957-].

Rimba muda. [Malayan language forestry journal]. 1- . Kuala Lumpur, 1957- .

Samarkand. Selektsionno-Pomologischeskaya Opytnaya Stantsiya. Byulleten' nauchno-tekhnicheskoi informatsii. 1- ; 1956- .

São Paulo avícola. 1.1- . São Paulo, Associação Paulista de Avicultura, Sept 1953- .

Sapporo. Hokkaido University. *See:* Hokkaido University.
Sechenov physiological journal of the U.S.S.R. 43.1- . New York, Pergamon Press, 1957- . (*Translation of:* Fiziologicheskii zhurnal SSSR im. I.M. Sechenova).
Sibirskii Zonal'nyi Nauchno-Issledovatel'skii Veterinarnyi Institut, Omsk. *See under:* Omsk.
Sydowia. Annales mycologici. Beihefte. 1- . Horn, Austria, 1957- .

Tanganyika. Forest Dept Utilization Division. Utilization series. 1- ; 1957- .
Tashkent. Sredne-Aziatskii Nauchno-Issledovatel'skii Institut Irrigatsii. Byulleten' nauchno-tekhnicheskoi informatsii. 1- ; 1956- .
Tashkent. Uzbekskii Nauchno-Issledovatel'skii Veterinarnyi Institut. *See:* Uzbekskii . . .
Terapia veterinaria. 1- . Quito, Jan 1957- .
Texas Flax Improvement Association. Texas spring flax area bulletin. 1- . [?Kenedy, ?1955-].
Texas. University. Cotton Economic Research. Report. 1- . Austin, 30 July 1957- .
Transvaal farmer. *See:* Tranvaalse boer.
Tranvaalse boer. Transvaal farmer. 1.3. Pretoria, Transvaalse Landbou-unie, Jan 1957.

Ubinskaya Opytnaya Meliorativnaya Stantsiya. Byulleten' nauchno-issledovatel'skykh i opytnykh rabot. 1- . Novosibirsk, 1956- .
Uzbekskii Nauchno-Issledovatel'skii Veterinarnyi Institut, Tashkent. Byulleten' nauchno-tekhnicheskoi informatsii. 1- ; 1956- .

Vitis: Berichte über Rebenforschung. 1.1- . Landau/Pfalz, Bundesforschungs-anstalt für Rebenzuchtung Geilweilerhof, 1957- .

Washington (*state*) University College of Forestry. W. B. Greeley lectures in industrial forestry. 1- ; 1957- .

Dictionaries

Bosario, L. *and* Gariboldi, F. Illustrated glossary of rice processing machines. Rome, FAO, 1957. Pp. 49. (English, French, Spanish).
Buchholz, E. Forstwirtschaftliches Fachwörterbuch. Russisch-Deutsch, Deutsch-Russisch. Berlin, 1957.
Empire Foresty Association. British Commonwealth forest terminology. Part 2. London, 1957.
Rice trade glossary. Rome, FAO, 1957. Pp. 111. (English, French, Spanish, Dutch, German and Italian.)
Soenen, A. *and others.* Dictionaire des principales mauvaises herbes

en agriculture. Gorsem, Centre des Recherches, [?958]. - Pp. 8. Arranged under Latin terms; equivalents in German, English, Spanish, French, Italian, and Dutch.

Directories

Aslib directory: a guide to sources of information in Great Britain and Ireland. Edited by Miriam Alman. London, Aslib [4 Palace Gate, W.8], 1957. Two volumes; price £5 to Aslib members, £6.6s.Od. to others.

Stifterverband für die Deutsche Wissenschaft. Vademecum deutscher Forschungsstätten . . . 2. Aufl. Bonn, 1957. Pp. 553.

Selected Reference Works

Boalch. D. H. Prints and paintings of British farm livestock 1780-1910: a record of the Rothamsted Collection. Harpenden, Rothamsted Exp. Station Library, 1958. Pp. 127; 32 plates. Price: £1.1s.Od. (Reviewed on page 158 below).

Congresses: Proceedings and Transactions

Genetics, 1956. Proceedings of the International Genetics Symposia 1956, Tôkyô and Kyôtô. Organized by the science Council of Japan under the auspices of International Union of Biological Sciences. Tokyo, Science Council of Japan, 1957. Pp. 680.

Maize, 1957. Summary of Papers read at the Symposium on 'Yellowing of Maize', College of Agriculture and Experiment Station, Potchefstroom, July 1957. Potchefstroom, [?1958]. Pp. 16, mimeographed.

Nematology, 1957. Report of the 4th Symposium on Plant Parasitic Nematodes, Hamburg 1957. (Supplement to Nematologica 2). Leiden, E. J. Brill, 1957. Pp. 103; price 14 guilders.

Nitrogenous Manuring, 1957. Atti del Convegna sulla Concimazione Azotata nell' Italia Meridionale e nelle Isole . . . Bari, Settembre 1957. Bari, Arti Grafiche Laterza, 1957. Pp. 406.

X-Ray Microscopy, 1956. X-ray microscopy and microradiography. Proceedings of a symposium held at . . . Cambridge, 1956. Edited by V. E. Cosslett [and others]. New York; Academic Press, 1957. Pp. 645; price £5.15s.0d.

BOOK REVIEWS

BOALCH, Donald H. *Prints and paintings of British farm livestock 1780-1810: a record of the Rothamsted Collection.* Harpenden Experimental Station Library, 1958. Pp. 127; 32 plates. Price £1.1s.0d.

To all concerned with animal production the period from 1780 to 1910 covered by this record is of great interest because during it the formation of breeds of domestic livestock, as we now understand the word breed, was started. It would be true also to say that few, if any, countries have taken a more prominent part in the development of farm livestock than has Britain.

The principal factor in the development of modern breeds was the use of detailed records to show the ancestry of individual animals, and it was not until breed societies were formed to guarantee the accuracy of these records that breeds as such were really able to develop.

Before the formation of the breed societies accurate information about the types of breeding stock available was, in the absence of recorded facts, apt to get lost, and for this reason the collection and documentation of as many illustrations as possible of livestock provides an important historical record of type development. It is, therefore, indeed fortunate that so large a collection of prints should have come under the care of Rothamsted Experimental Station, whose library is regarded as one of the outstanding international collections. It is equally fortunate that the cataloguing of the collection has been carried out by such a gifted librarian as Mr. Boalch. The presentation of information of this kind requires a professional hand, and this he has provided.

The cataloguing itself is done with clarity, so that all available information is easily found. It is also done with taste. The number of excellent illustrations with which the catalogue is provided adds greatly to its attractiveness, and the historical sketch by Dr. John Hammond of the development of breeds represented in the collection ensures that there will be a wide demand for the catalogue.

H. R. DAVIDSON

CORRIGENDA

in Quarterly Bulletin, 3.1 (Jan 1958)

The following member was omited from the List of Members of IAALD:

Sittingbourne, Kent

Technical Information Section, Woodstock Agricultural Centre, Shell Research Ltd.

in Quarterly Bulletin, 3.2 (Apr. 1958)

Page 82: *Algemeen agrarisch archief* was absorbed by *Landbouwdocumentatie,* not as recorded.

A NOTE ON THIS QUARTERLY BULLETIN

The editorial office is at the Library, Rothamsted Experimental Station, Harpenden, Herts., England.

Communications regarding its should be sent to Mr. D. H. Boalch at that address.

News in the field of the bibliography and documentatian of agriculture and allied subjects is welcomed. Short articles (about 1500 words) and letters to the Editor will be published in the Quarterly Bulletin from time to time; these should be in English, French, German, or Spanish. Articles, in whatever language they are written, should have an English summary.

Note: This Quarterly Bulletin is obtainable through membership of the International Association of Agricultural Librarians and Documentalists. The annual subsription of 50 Swiss francs (£4.2.6d; $12.50) for Institutes or Libraries, or 10 Swiss francs (£0.16.6d; $2.50) for individuals, should be sent to the Treasurer, Th. P. Loosjes, Twentse Bank, Wageningen, Netherlands.

The Quarterly Bulletin is now available also to non-members of the Association at an annual subscription of 50 Swiss francs (£4.2.6d. or $12.50, the same rate as for institutional membership), payable to the Treasurer, Th. P. Loosjes, at the address given above.

Some institutions find it necessary to subscribe through a bookseller to IAALD. Will they kindly notify the treasurer of this fact, so that they may be recorded in the membership list and qualify for the rights of members.